RESTRICTED CIRCULATION

METEOROLOGICAL OFFICE
1271
13 JUN 1978
LIBRARY

THIS PAPER IS NOT AN OFFICIAL DOCUMENT: IT IS FOR INFORMATION ONLY AND MUST NOT BE QUOTED IN ANY PRINTED PUBLICATION

Excess Winter rain (effective rainfall) in Southeast England

Agricultural Memorandum - No 831

Soil scientists particularly are interested in end-of-month effective rainfall totals; comparison of these figures with long-term averages would act as a guide, for example, to the course of leaching of nitrates.

Daily 'effective rainfall' (ie rainfall minus average daily potential transpiration when SMD = 0) for short-rooted vegetation was computer-calculated for six stations with long period records. End-of-month totals were noted for the winter season.

Average and maximum and minimum effective rainfalls at the end of December through to the end of April are tabulated together with the interquartile range (iqr).

Any comments or suggestions on this paper should be referred to the author.

J R Starr
MAFF Reading

April 1978

Effective rainfall (mm)
Shinfield 1961-77

	Dec	Jan	Feb	March	April
End of Month Average	76	124	152	176	182
Maximum	193	268	324	356	357
Season	76/77	74/75	76/77	76/77	76/77
Minimum	0	14	14	33	33
Season	64/65 73/74	64/65	64/65	64/65	64/65
iqr	108/24	168/65	212/89	227/128	245/134

Aylesbury 1961-77

	Dec	Jan	Feb	March	April
End of Month Average	68	110	135	156	161
Maximum	167	221	301	320	320
Season	76/77	76/77	76/77	76/77	76/77
Minimum	0	0	0	3	3
Season	64/65 69/70 73/74 75/76	64/65	64/65	64/65	64/65
iqr	120/0	166/49	184/62	201/103	206/112

Gatwick 1961-77

	Dec	Jan	Feb	March	April
End of Month Average	130	198	238	267	280
Maximum	274	383	442	485	487
Season	76/77	76/77	76/77	76/77	76/77
Minimum	2	88	97	105	105
Season	73/74	75/76	64/65	75/76	75/76
iqr	175/78	238/107	305/158	326/209	345/209

Benson 1963-77

	Dec	Jan	Feb	March	April
End of Month Average	59	101	130	149	152
Maximum Season	156 66/67	212 74/75	233 66/67	272 74/75	276 74/75
Minimum Season	0 64/65 69/70 71/72 73/74 75/76	0 75/76	0 75/76	0 75/76	0 75/76
iqr	106/0	167/52	204/76	220/96	220/97

Hurn 1961-77

	Dec	Jan	Feb	March	April
End of Month Average	144	225	273	309	314
Maximum Season	341 76/77	432 76/77	549 76/77	600 76/77	600 76/77
Minimum Season	0 71/72	54 75/76	68 75/76	80 75/76	80 75/76
iqr	210/75	290/134	338/173	388/225	391/242

Wye 1961-77

	Dec	Jan	Feb	March	April
End of Month Average	122	174	210	237	247
Maximum Season	327 66/67	389 76/77	451 76/77	491 76/77	493 74/75
Minimum Season	0 71/72	36 72/73	66 72/73	68 72/73	68 72/73
iqr	140/74	197/103	252/110	268/128	269/142